

InstallGuard



*Software Installation and
Integration Issues*

Andrew Cox

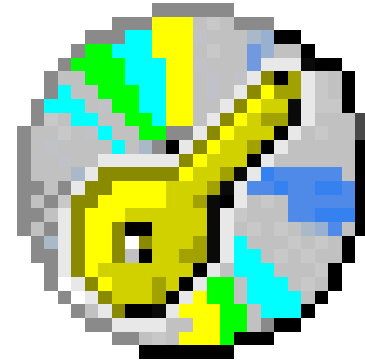
GCCS-M

8 July 1999

Quick Outline



- Navy GCCS-M Status
- Overview of InstallGuard
 - Description/Requirements
 - Current Status
 - Plans
- InstallGuard Demo
- Future of Installation Tools
(InstallShield + Sun + InstallGuard)



Description/Requirements

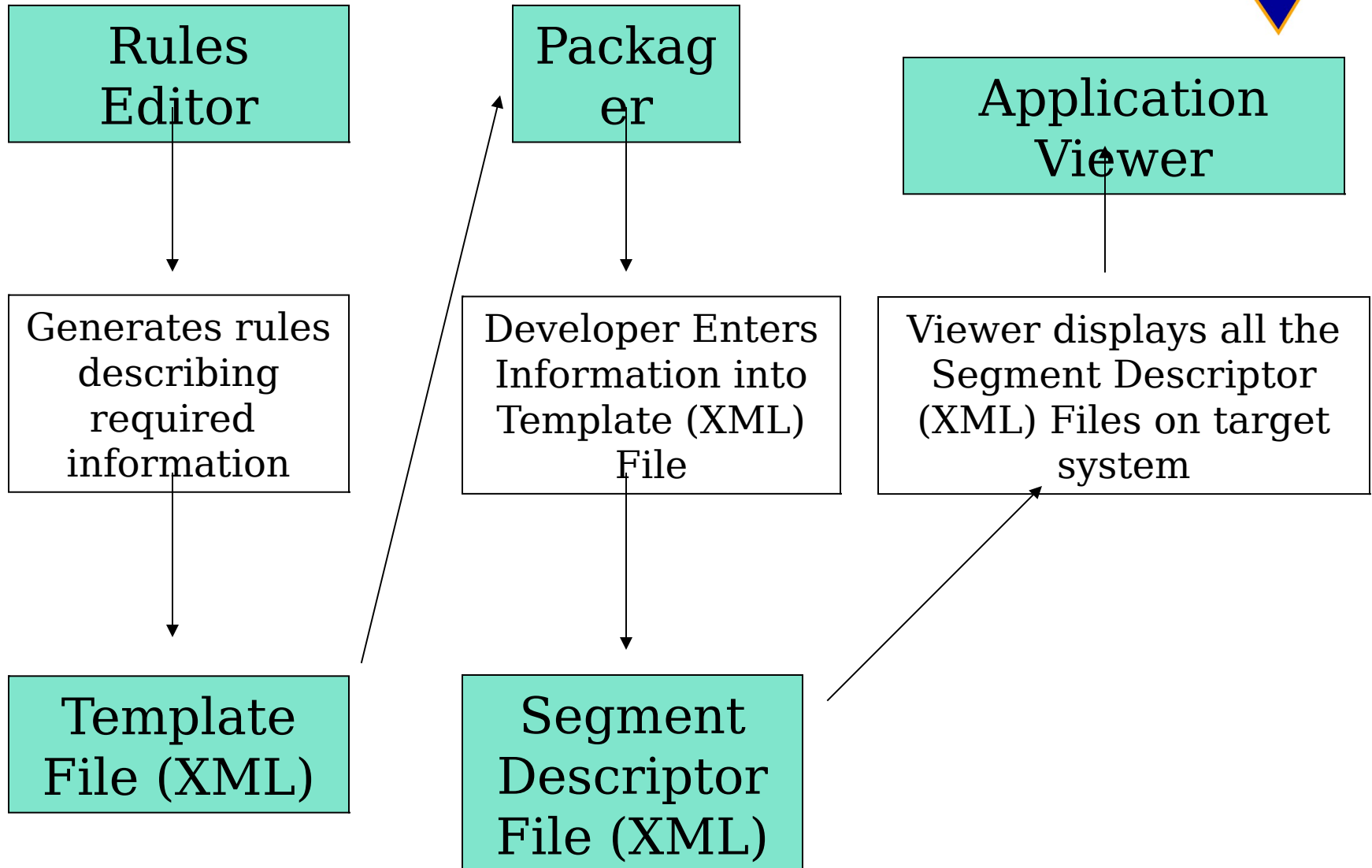
- InstallGuard currently provides a Java based tool set for building segment descriptor files and creating an installation build for NT.
- Currently using InstallShield for final media image building - support for other COTS installation tools underdevelopment/investigation
- Near Term Goals:
 - Operate with WebStart
 - Build API for plug-able COTS Installers
 - Automated Abbreviated Segment generation
 - Interface with CDS (Common Data Store)



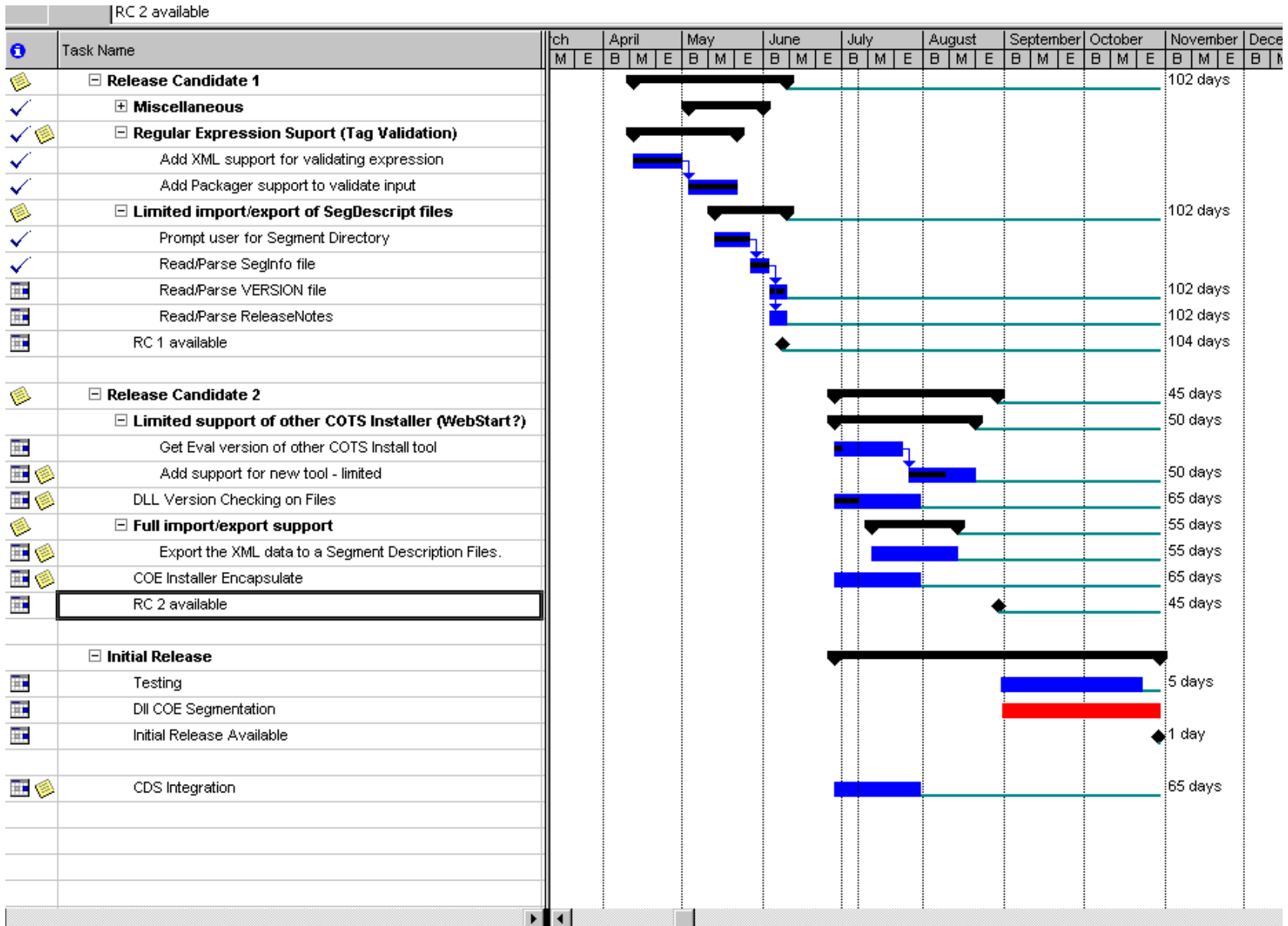
Features

- Supports DISA I&RTS Requirements 4.x
- Support NT Logo Requirements
- Utilize XML for SDF representation
- Import existing segments (3.1 and later)
- Export to 4.X segment format
- Standardize a “front end” to Segmentation Process
- Template editor with field data validation support
- Java Help and Cut and Paste
- File and registry browsers

DII COE InstallGuard



Schedule



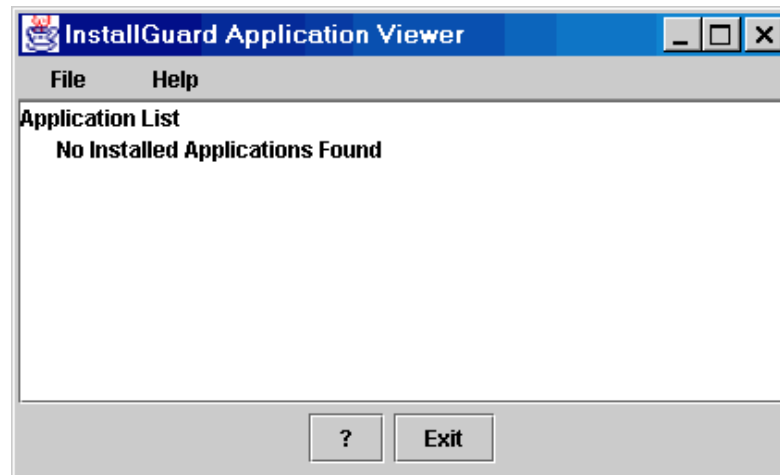
Next Release Goals



- Preliminary Support for WebStart
- Full Import of SegDescrip
- Export SegDescrip (SDF)
- CDS Integration
- Remove JNI dependencies for Windows Registry so that IG can run on Unix based platforms as well.
- Add additional support for newer 4.x features

Viewer

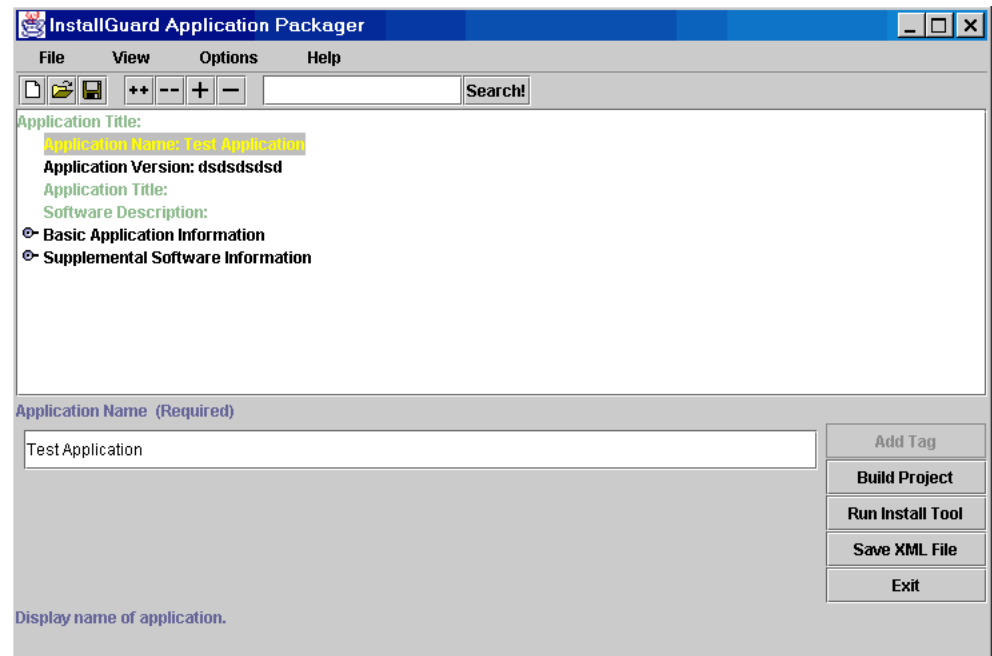
- Displays installed segments
- Could become starting point for install/de-install
- Can support remote install and multi-install



Packager



- Gathers SDF information and generates XML/scripts
- Launches COTS Installer
- Imports existing
- Exports 4.x

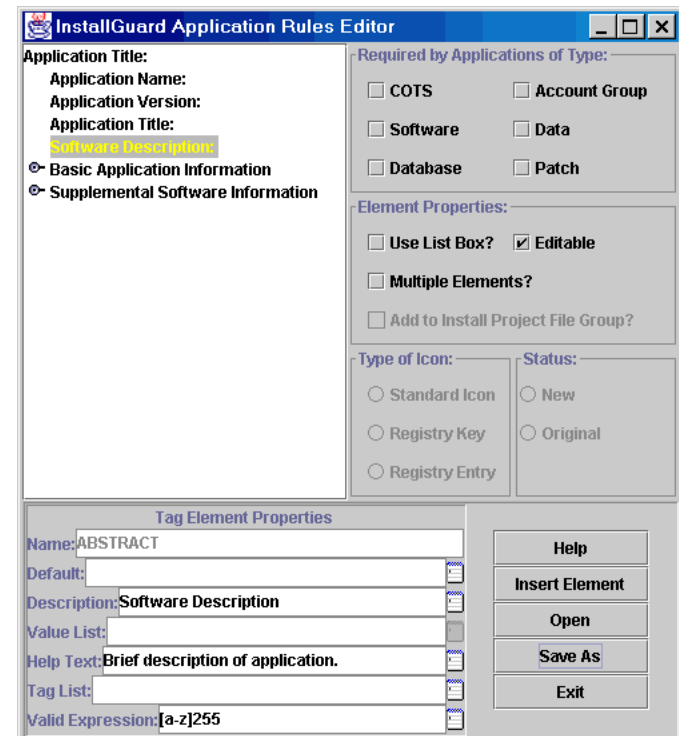


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Editor



- Used to customize how packager interacts
 - specifies required fields
 - provides for default values
 - tailoring colors
 - Reg Exp
- Allows for generation of standard templates which can be then used by developers



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New IG XML Tags and **SPAWAR** Usage



IG:COEPOSTINSTALL →	[Direct] PostInstall
IG:COEPREINSTALL →	[Direct] PreInstall
IG:RELEASENOTE →	Release Notes (readme) file for
project →	
IG:PATCHNUMBER	Used for version and install
path →	
IG:ENVIRONMENTVARIABLELIST	Support for NT I&RTS
IG:HELPURLTYPE	Support for COE DocViewer

Others added as new requirements arise - not a problem!

COTS Installer API Integration



- Can InstallGuard pass segment data to default COTS Installer?
- Does COTS Installer have API's?
- Can COTS Installer execute IG code before and after installation to enforce COE Business Logic?
- Can COTS installer execute Java code?
- What machines and OS's are supported?

Tools Comparison



	Windows NT	Solaris	Scriptable	DI COE Version	Application Type	Pre/Post	Install Guard
Install Shield Professional	X	?	Proprietary	4.X	Non Java	X	X
Install Shield for Java	X	X	Java Based	4.x/5.0	Any		*
Solaris Web Start		X	Java Based	5.0	Solaris Based		
Install Anywhere	X	X	Java Based	?	Any	X	p
Install Manager	X		Proprietary	4.X/5.0	Non Java		
Install Guard	X	?	N/A	4.X/5.X	Any		N/A

Regular Expressions



The InstallGuard RulesEditor permits users to define and modify tags.

Install Guard contains a regular expression parser from GNU which can be used to validate tag input.

This provides the government the ability to create and modify templates as the I&RTS is updated.

Business Logic is not implemented for user defined tags

InstallGuard WebSite



<http://www.dtai.com/installguard>

